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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/039,385	01/03/2002		Thomas Patrick Yohe	S-00014-008	2011
25179	7590	02/11/2005		EXAMINER	
A PATENT R WILLIAM		ER CORP, PC M	WANG, LIANG CHE A		
22 S ST CLAIR ST				ART UNIT	PAPER NUMBER
DAYTON, OH 45402				2155	

DATE MAILED: 02/11/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	A	A					
	Application No.	Applicant(s)					
Office Action Summany	10/039,385	YOHE ET AL.					
Office Action Summary	Examiner	Art Unit					
	Liang-che Alex Wang	2155					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a rep If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be timely within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).					
Status							
1)⊠ Responsive to communication(s) filed on 03 J	anuary 2002.						
	s action is non-final.						
3) Since this application is in condition for allowa	ince except for formal matters, pro	secution as to the merits is					
·	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims		•					
4)⊠ Claim(s) <u>1-19</u> is/are pending in the application	1.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.							
6) Claim(s) is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/o	or election requirement.						
Application Papers	•						
9) The specification is objected to by the Examiner.							
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign	nriority under 35 H S C & 110(a)	(d) or (f)					
a) ☐ All b) ☐ Some * c) ☐ None of:	i priority under 35 0.5.C. § 119(a)	-(d) or (i).					
1. Certified copies of the priority document	ts have been received						
Certified copies of the priority document     Certified copies of the priority document		on No					
Copies of the certified copies of the prior							
application from the International Burea	•	d in this retional otage					
* See the attached detailed Office action for a list		d.					
233 this attached detailed entite details for the obtained depress flot received.							
Attachment(c)							
Attachment(s)  1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)					
2) Notice of Preferences Cited (FTO-032)  Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	nte					
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	) 5) Notice of Informal P 6) Other:	atent Application (PTO-152)					

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#### **DETAILED ACTION**

1. Claims 1-19 are presented for examination.

## Paper Submitted

- 2. It is hereby acknowledged that the following papers have been received and placed of record in the file:
  - a. Information Disclosure Statements as received on 1/03/2002 is considered.

# Claim Objections

- 3. Claim 17 is objected to because of the following informalities:
- 4. Claim 17, line 3, the term "said client object requestor software 32" should be changed to "said client object requestor software".

Appropriate correction is required.

## Claim Rejections - 35 USC § 112

- 5. The following is a quotation of the second paragraph of 35 U.S.C. 112:
  - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 6. Claims 4 and 18 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 7. Referring to claim 4, the limitation "said registration authorization process includes providing one of identical and unique means for accessing multicast updated data"

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renders the claim vague and indefinite. It is not clear what "one of identical and unique means for accessing multicast updated data" is.

8. Referring to claim 18, it is unclear and hard to distinguish the difference between "a server computer" as described in claim 18 and "a server computer" in claim 9. The Examiner will view the limitation "a server" in claim 18 as "a second server" for further examination.

# Claim Rejections - 35 USC § 102

9. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 10. Claims 1-7, 9-16, 18 is rejected under 35 U.S.C. 102(e) as being anticipated by Johnson et al., US Patent Number 6,247,059, hereinafter Johnson.
- 11. Referring to claim 1, Johnson has taught, a method for synchronizing databases among a server computer (figure 2, item 12-0) having a master database (memory 20) therein, and a client computer (Figure 1 item 12-1) having replica database (node-1 is associated with a memory as node-0 as displayed in figure 2) of the master database therein, comprising the steps of:
  - a. establishing communication between a server computer having a master database therein and a client computer (Col 2 lines 23-26, figure 1, the node which is

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multicasting data is viewed as a server computer and the nodes which are receiving data are viewed as client computers);

- b. recognizing a replication request by said client computer for a piece of data within said master database from said server computer (Col 2 lines 54-55);
- c. initiating a registration authorization process of said client computer wherein said client computer is provided with means for accessing multicast updates of said data (Col 1 lines 13-16, members are registered and authorized users); and
- d. accessing a multicast of updated data using said accessing means (Col 2 lines 23-26).
- 12. Referring to claim 2, Johnson has further taught, the steps of determining a missed multicast of updated data by said client computer (Col 2 lines 44-51, abstract) and initiating a unicast of said missed updated data (Col 2 lines 34-40).
- 13. Referring to claim 3, Johnson has further taught,
  - a. establishing a connection between said server computer and a plurality of client computers (Col 2 lines 11-17, and Figure 1, multiple receivers).
  - recognizing a replication request by each said client computer for a piece of data within said master database from said server computer (Col 2 lines 54-55);
  - c. initiating a registration authorization process of said client computers wherein said client computer is provided with means for accessing multicast updates of said data (Col 1 lines 13-16, members are registered and authorized users); and
  - d. accessing a multicast of updated data using said accessing means (Col 2 lines 23 26).

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- 14. Referring to claim 4, Johnson has further taught, wherein said step of recognizing replication requests are for different data for each said client computer, and said registration authorization process includes providing one of identical and unique means for accessing multicast updated data (Col 1 lines 13-16, each member is a registered and authorized user.)
- 15. Referring to claim 5, Johnson has further taught, the step of determining whether to receive said update of said data (Figure 5, steps 110-116, Col 17 line 55 Col 18 line 2).
- 16. Referring to claim 6, Johnson has further taught, wherein the step of determining is accomplished by maintaining in said client computer information relating to prior updates of said data by said client computer (Col 7 line 63 Col 8 line 2, previous sequence numbers are the information relating to prior updates.)
- 17. Referring to claim 7, Johnson has further taught, wherein the step of determining is accomplished by maintaining in said server computer information relating to prior updates of said data by said client computer (Col 7 lines 55-62, sequence number associated with current packet sent from the sender are the information relating to prior updates.)
- 18. Referring to claims 9-15, claims 9-15 encompass the same scope of the invention as that of the claims 1-7. Therefore, claims 9-15 are rejected for the same reason as the claims 1-7.
- 19. Referring to claim 16, claim 16 describes all the system elements that performs the function as described in claim 1-7, therefore claim 16 is rejected for the same reason as claims 1-7 and 9-15.

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20. Referring to claim 18, Johnson has further taught wherein said client computer is further characterized to be a second server (Figure 1, abstract, each node is capable of sending multicast data to other nodes, therefore said client computer could is also a server.)

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# Claim Rejections - 35 USC § 103

- 21. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 22. Claims 8, 17 and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Johnson in views of Bhagavath et al., US Patent Number 6,567,929.
- 23. Referring to claims 8 and 19, Johnson has taught an invention as described in claims 1 and 9, however, Johnson does not explicitly teach means for determining the rate at which to multicast said data.

However, Bhagavath has taught the RTCP and RTP packets periodically report the sender's rate of transmission to clients (Col 8 lines 19-30)

It would have been obvious to a person with ordinary skill in the art at the time the invention was made to incorporate the data packet which reports the rate of transmission to the client because both Johnson and Bhagavath have taught invention regarding recovering missed multicast information (Bhagavath, Col 10 lines 34-51.)

A person with ordinary skill in the art would have been motivated to make the modification to Johnson because having a way to determine the rate of transmission

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would allow the system to know the pace of work and have a better understanding of the time taken to complete tasks (Col 8 lines 19-30).

24. Referring to claim 17, Johnson has taught an invention as described in claim 1, however,

Johnson does not explicitly teach means for encrypting said data and transmitting an

encryption key sequence for client decrypting said data.

However, Bhagavath has taught the technique of using encryption and decryption for data transmission between sever and clients (Col 3 lines 33-46.)

It would have been obvious to a person with ordinary skill in the art at the time the invention was made to incorporate the encryption/decryption techniques to John because both Johnson and Bhagavath have taught invention regarding recovering missed multicast information (Bhagavath, Col 10 lines 34-51.)

A person with ordinary skill in the art would have been motivated to make the modification to Johnson because using encryption and decryption techniques in data transmission would provide a better secured data transmission to prevent hacking and data lost.

#### Conclusion

25. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Applicant is reminded that in amending in response to a rejection of claims, the patentable novelty must be clearly shown in view of the state of the art disclosed by the references cited and the objection made. Applicant must show how the amendments avoid such references and objections. See 37 CFR 1.111(c).

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26. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Liang-che Alex Wang whose telephone number is

(571)272-3992. The examiner can normally be reached on Monday thru Friday, 8:30 am

to 5:00 pm.

27. If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Hosain T Alam can be reached on (571)272-3978. The fax phone number for

the organization where this application or proceeding is assigned is 703-872-9306.

28. Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published

applications may be obtained from either Private PAIR or Public PAIR. Status

information for unpublished applications is available through Private PAIR only. For

more information about the PAIR system, see http://pair-direct.uspto.gov. Should you

have questions on access to the Private PAIR system, contact the Electronic Business

Center (EBC) at 866-217-9197 (toll-free).

Liang-che Alex Wang February 3, 2005

HOSAIN ALAM

How

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